



## EPA Region 6



# QUARTERLY REPORT

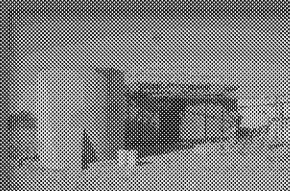
*April – June 2018*



US-MEXICO COOPERATIVE AGREEMENT  
Implementation of Border 2020 Program  
EPA-Region 6  
X4-00F92501



*Submitted by:*  
*Javier Torres, Technical Assistance Manager*



Banco de Desarrollo de América del Norte  
*North American Development Bank*

# ***QUARTERLY STATUS REPORT***

## **US-MEXICO COOPERATIVE AGREEMENT Implementation of Border 2020 Program EPA-Region 6**

**GRANT: X4-00F92501**

Grant Period: Sep. 17, 2004 – Aug. 31, 2019

**REPORTING PERIOD:**

***April – June 2018***

**TO:**

***Monica Randall***

***U.S. EPA, Region 6 (6PD)***

***Environmental Protection Specialist***

**FROM:**

***Javier Torres***

***North American Development Bank***

***Technical Assistance Manager***

***July 30, 2018, Cd. Juárez, Chihuahua, México***

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## US Mexico Border 2020 Environmental Program - Quarterly Grant Status Report

**Grant Title:**

US – Mexico Border Cooperative Agreement  
Implementation of EPA Region-6 Border 2020 Program

**Grant Agreement No.**

X4-00F92501

**Contact:**

Primary Contact Name: **Javier Torres**  
Organization: North American Development Bank  
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**Reporting Period (please check appropriate period):**

- ☐ July 1 – September 30, 2017, Reporting period: report due on October 30, 2017
- ☐ October 1 – December 31, 2017, Reporting period: report due on January 30, 2018
- ☐ January 1 – March 31, 2018, Reporting period: report due on April 30, 2018
- ☒ April 1 – June 30, 2018, Reporting period: report due on July 30, 2018
- ☐ July 1 – September 30, 2018, Reporting period: report due on October 30, 2018
- ☐ October 1 – December 31, 2018, Reporting period: report due on January 30, 2019
- ☐ January 1 – March 31, 2019, Reporting period: report due on April 30, 2019
- ☐ April 1 – June 30, 2019, Reporting period: report due on July 30, 2019
- ☐ July 1 – August 30, 2019, Reporting period: report due on September 30, 2019

Check here if this is the final reporting period under your grant ☐

**Please explain any current or expected growth of your project. If there is growth potential, have you consulted with other partners for further or future leveraging of funds, for continuing the project after funding from the Environmental Protection Agency ends?**

None to report.

**Indicate the goal(s) and objective(s) of the Border 2020 Framework Document that this grant is addressing (<http://www.epa.gov/border2020> )**

**GOAL 1. - Reduce Air Pollution**

**Objective 1. -** By 2020, in accordance with the NAFTA, promote the reduction of the number of vehicles operating in the border region that do not comply with the respective vehicle emissions' standards and reduce vehicle emissions at ports-of-entry through anti-idling and other feasible reduction measures.

- **Project type 1:** Support the development of vehicle emissions programs in collaboration with governmental entities in order to improve compliance, enhance detection and correction of non-compliance vehicles. In addition, capacity building activities to reduce air pollution, in the border cities or at the Ports of Entry (POE), which may include the enforcement of environmental compliance at the time of used vehicle importation.

**Objective 2.-** By 2020, reduce pollutant emissions in order to approach attainment of respective national ambient air quality standards (i.e. National Ambient Air Quality Standards (NAAQS) or Norms as they are referred in Mexico) in the El Paso, Texas–Dona Ana County, New Mexico and at State of Chihuahua’s border cities’ air sheds.

- **Project type 1:** Establish joint collaboration strategies with governmental and/or non-governmental regulatory and planning agencies to identify and implement air pollutant reduction strategies to achieve better air quality in the Paso del Norte region (PdN). Projects should promote, expand, and be consistent with the strategies identified in PROAIRES (Mexico’s air shed management plan) or U.S. Clean Air Act (USCAA) State Implementation Plans (SIPs.)

**Objective 3. –** By 2018, maintain effective Ambient Air Quality Monitoring Network (AAQMN) and provide real-time access to air quality data produced at New Mexico/Texas /Mexico air sheds.

- **Project Type 1:** Initiatives for this objective should aim to ensure the long term sustainability and data quality for the El Paso, Texas – Ciudad Juarez, Chihuahua air quality monitoring network.

## **GOAL 2: Water – Improve Access to Clean and Safe Water**

- **Project type 1:** Efforts under this goal should be targeted to capacity building proposals that incorporate replication strategies, on proper maintenance and/or decommissioning of septic tanks, water conservation and pollution prevention in order to better understand, plan and maintain cleanup sources of drinking water on future groundwater supplies in New Mexico-Texas-Chihuahua border, specifically in Dona Ana County, New Mexico (particularly those communities along the corridor between El Paso, Texas and Las Cruces, New Mexico) and Luna County, New Mexico and El Paso County, Texas.

**Objective 2. -** Help drinking water and wastewater service providers in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.

- **Project type 1:** Conduct energy and/or water audits on small water drinking systems that serve communities with less than a population of 5,000 users, to identify recommendations on how to improve efficiency and provide cost-savings measures for that system.
- **Project type 2:** Outreach and education to improve water quality within the Gulf Task Force Region.

**Objective 3. -** Work bi-nationally to identify and reduce surface water contamination in Trans - boundary water bodies and watersheds.

**Objective 3a.** - Develop a binational watershed protection plan in the Lower Rio Grande below Falcon International Dam. Initial activities could include partnership building, watershed characterization, definition of goals/identification of solutions, determination of waste load, load allocations for each country, and development of an implementation plan.

- **Project type 1:** Continue to support activities that meet objective 3a– The proposals should address any water quality sampling and collection, data analysis, modeling and surveys still required by the bi-national workgroup on this project. In addition, the work should also support any additional training or workshops needed, among others, by the Amistad and Falcon Task Force, as well by the Texas-Coahuila-Nuevo Leon –Tamaulipas, Regional Work Group.

### **GOAL 3: Promote Materials Management & Waste Management, & Clean Sites**

**Objective 1.** - By 2020, increase local and state-level institutional knowledge and experience in the area of sustainable material management practices.

- **Project type 1:** Proposals should be aimed to build capacity and establish strategies to improve infrastructure to minimize waste, maximize collections systems, support secondary materials markets, and reduce overall disposal in landfills and open dumps.

**Objective 2.** - Identify priority waste streams and by 2020 develop sustainable material management practices that strengthen their respective market value.

- **Project type 1:** Identify priority waste streams in the municipalities from Four States region and develop sustainable waste management programs for those municipalities to include strengthening the market value of the waste.
- **Project type 2:** Develop sustainable management practices to address used electronics, household hazardous waste, and tires in the Region which will include an educational component to promote recycling and solid waste practices.

### **GOAL 4: Enhance Joint Preparedness for Environmental Response**

**Objective 2.** - By 2020, at least eight (8) of the sister city joint contingency plans will be supplemented with preparedness and prevention related activities such as certified training, risk analysis, and/or capacity building

- **Project type 1:** Conduct bi-national training to both U.S. and Mexican local emergency responders, on incidents involving Chemical, Biological, Radiological, Nuclear, or Explosive (CBRNE), and/or all hazards response skills enabling them to respond safely and effectively to these types of incidences.
- **Project type 2:** Conduct bi-national training to U.S. and Mexican local emergency responders, specifically on HAZMAT incidences only.
- **Project type 3:** Conduct bi-national: 1) tabletop drill with functional drill/exercise or 2) Full Scale Drill/Exercises to test local sister city plans. In order to meet the definition of bi-national, the drills/exercises should go beyond a simple notification to the local sister-city pair and demonstrate actual coordination of resources (expertise, equipment, personnel, etc.) between the sister-cities.
- **Project type 4:** Develop a hazardous materials risk analysis.



## **GOAL 5. – Enhance Compliance Assurance and Environmental Stewardship**

**Objective 4.** - By 2020, implement at least five (5) binational workshops targeted to environmental enforcement professionals, including ports-of-entry customs professionals (i.e. Department of Homeland Security-Customs and Border Protection), to promote the exchange of information and improve understanding of each Country's respective compliance and enforcement programs and tools, including field studies.

- **Project type 1:** Proposals should consider events for information exchange to improve understanding each Country's respective compliance and enforcement programs and tools including field inspections and case development practices.

### **Fundamental Strategies**

#### **Promoting Environmental Health**

- **Project type 1:** Projects presented under this fundamental strategy should increase engagement and participation by the community and stakeholders to better manage the environment and public health issues along the border.

#### **Building Capacity towards Climate Change Resiliency**

- **Project type 1:** The Border 2020 climate change efforts should focus on reducing greenhouse gas (GHG) emissions and on actions to help border communities become more resilient to the effects of climate change.

### **Summary of approved Work Plan activities performed during the reporting quarter.**

Projects in progress during reporting period:

Project ID	Goal	Objective	Project Name	Status
20298	3	1	Sewage Sludge and Biosolids Agricultural Soils Project in the Valle de Juarez, Chihuahua	Project Status: Project is concluded. Main results include the implementation of 18 courses-training workshops with a total attendance of 410 people, including farmers, technicians, officials, students and the public in general. These courses were carried out with 12 informative drop-down publications and seven papers on the topics related to the importance of biosolids for the agriculture.
20297	2	2	Decision Making Tool (DMT <sup>G</sup> ) for Determining LID Stormwater Detention, Brownsville, Texas	Project Status: Activities for this quarter include: The modeling runs for the Tool were done and the DMT has been finalized and rolled out through past workshops, for this reason, a project no-cost extension was authorized and approved until July 31, 2018.

20303	FS	N/A	Healthy and Resilient Housing in west Ciudad Juarez, Chihuahua	Project Status: Project completed March 2018. Preparation of a regional catalog with 32 eco-technologies. Technical and Financial Assistance customized for each of the 50 homes in the implementation and technical support and supervision of green catalog and construction elements. Quantitative results: 529m3 water saved per month, impermeabilization of 34 homes, 16 windows, 200 people benefitted
<b>Summary of the Work Plan performance outputs/outcomes achieved during the reporting quarter.</b>  None to report.				
<b>Are you on track with your timeline?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  <b>A description of problems encountered during the reporting quarter that may affect the project schedule and a discussion of meeting the performance outputs/outcomes.</b>  None				
<b>Resolutions to Problems Previously Reported.</b>  None to report.				
<b>Activities Anticipated/Planned for Next Three Months and Budgeted Costs.</b>  Continue with the development of active projects.				
<b>Discuss what key personnel did on the project.</b>  Briselda Duarte and Jorge Hernandez coordinated project development activities with EPA and sponsors. Marielena Constandse prepared this report and provided Contract Administration. Javier Torres provided Grant Administration coordination with EPA. Joaquin Marruffo supervised the execution of the project activities.				
<b>Discuss any changes in key personnel.</b>  No personnel changes have taken place.				
<b>Please name any significant partner organizations that you (as the lead organization) have for this project, who are taking responsibility for substantial portions of implementation.</b>  None to report.				
<b>BUDGET SUMMARY</b> - Include information on the expenditure of grant agreement funds during the quarter and cumulatively by task in the provided budget tables. The tasks should correspond to the tasks outlined in your approved grant agreement work plan and the tables may be expanded accordingly. In addition, include in your narrative an estimate of funds needed to complete the work required in the grant agreement compared to the funds remaining in the grant				

agreement. *Note: This section does not substitute for the annual financial status report (SF-269) required by the grant agreement.*

**TABLE 1**

Summary of Quarterly Expenses by Category (Report Period April 1 to June 30, 2018)

Work Plan Tasks	Approved Work Plan Budget	Previously Expended	Expenses this Quarter	Total Cumulative Expenses
Task A- Projects	\$ 278,255.00	\$198,667	\$34,672	\$233,339
Task B- Emergency Response	\$ 26,290.00	\$25,055	\$0	\$25,055
Indirect Cost	\$30,455.00	\$22,372	\$3,467	\$25,839
<b>TOTAL Cumulative Expenses</b>	<b>\$335,000.00</b>	<b>\$246,094</b>	<b>\$38,139</b>	<b>\$284,233</b>

**TABLE 2**

Budget Categories (programmatic costs only)	Task A Projects	Task B Emergency Response	TOTAL Quarterly Expenses
Personnel	\$0	\$0	\$0
Fringe Benefits	\$0	\$0	\$0
Travel	\$0	\$0	\$0
Equipment	\$0	\$0	\$34,671.52
Other (specify)	\$34,671.52	\$0	\$34,671.52
TOTAL Direct Charges	\$34,671.52	\$0	\$3,467.15
Indirect Costs	\$3,467.15	\$0	\$38,138.67
<b>TOTAL Cumulative Expenses</b>	<b>\$38,138.67</b>	<b>\$0</b>	<b>\$34,671.52</b>

<sup>1</sup>EPA defines equipment as items that cost \$5,000 or more with a useful life of more than one year. Items costing less than \$5,000 are considered supplies.

<sup>2</sup>Applicants must comply with the procurement procedures contained in 40 CFR 31.36, or for non-profits, with 40 CFR30.40.

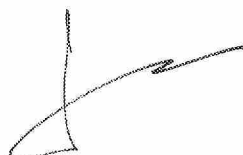


**What is the geographic scope of your project implementation?** *(Include whether it is within the Tri-State and/or Four-State Region of Border 2020, whether implementation takes place in both the U.S. and Mexico, and any more specific implementation.)*

The geographic scope of this award covers the Tri-State Region, which includes the states of New Mexico, Chihuahua and the West Texas region; and the Four-State Region which includes the rest of Texas, Coahuila, Tamaulipas and Nuevo Leon.

**I certify that this report is true and correct, project is on schedule except as noted, and funds are being utilized as planned and agreed to in the award document.**

**Signature of Project Official:**



**Printed Name:**

Javier Torres

**Title:**

Technical Assistance Manager

**Date:** July 30, 2018

*Within 30 days following the end of each quarter, please submit this report to your EPA Project Officer.*

## ATTACHMENT “A”

THREE STATE (TX-CHIH-NM) BORDER 2020 - 2015 PROJECTS								
No.	Project ID	Goal/ Fund. Strategy	Objective	Project Name	Project Implementer	BECC Contract Officer & Project Manager	Amount Approved	STATUS
					Contact Information		Amount Disbursed	
1	20298	3	1	Sewage Sludge and Biosolids Agricultural Soils project in the Valle de Juarez, Chihuahua	Universidad Autónoma de Cd. Juárez	Jorge Hernandez (PM)	\$ 44,136.56	Project Status: Project is concluded. Main results include the implementation of 18 courses-training workshops with a total attendance of 410 people, including farmers, technicians, officials, students and the public in general. These courses were carried out with 12 informative drop-down publications and seven papers on the topics related to the importance of biosolids for the agriculture.
							\$ 44,136.56	
2	20303	FS	N/A	Healthy and Resilient Housing in west Ciudad Juarez, Chihuahua	Federación Mexicana de Asociaciones Privadas de Salud y Desarrollo Comunitario, A.C.	Briselda Duarte (PM)	\$ 47,106.10	Project Status: Project completed March 2018. Preparation of a regional catalog with 32 eco-technologies. Technical and Financial Assistance customized for each of the 50 homes in the implementation and technical support and supervision of green catalog and construction elements. Quantitative results: 529m3 water saved per month, impermeabilization of 34 homes, 16 windows, 200 people benefitted
							\$ 47,106.10	
3	20302	FS	N/A	Green Infrastructure in Public Space on Valle del Sol Avenue, Ciudad Juarez, Chihuahua	Instituto Tecnológico de Ciudad Juárez	Joaquín Marrufo (PM)	\$ 42,231.02	Project Status: Project concluded on December 2017. Some of the most relevant outputs and outcomes are: Monitoring of rain water volume occurred during 17 months, from July 2016 to November 2017, with a total volume collected of 472,502.33 gallons of rainwater. To have a clearer understanding of the results, consider a 12-month period, where precipitation was of 13.79 in, resulting in a capture volume of 436,203 gal. Regarding the contaminants analyses, there was not enough rainwater volume to have a representative sample to be tested. In reference to the vegetation, there was an acceptable surviving index of the planted trees and bushes. The park has not had the need for irrigation, since rainwater does its part. Finally, with the green infrastructure project, the social value of the park increased
							\$ 42,231.02	
Amount Approved							\$ 133,473.68	
Amount Disbursed							\$ 133,473.68	

# FOUR STATE (TX-COAH-NL-TAMPS) BORDER 2020 - 2015 PROJECTS

No.	Project ID	Goal/ Fund. Strategy	Objective	Project Name	Project Implementer	BECC Contract Officer & Project Manager	Amount Approved	STATUS
					Contact Information		Amount Disbursed	
1	20270	4	2	Hazardous Materials First Responders Binational Training in McAllen, Mission, Pharr, TX and Reynosa, Tamaulipas	City of McAllen Juan Gloria (956)681-2540 jgloia@mcallen.net	Marielena Constandse (CO) / Briselda Duarte (PM)	\$ 25,055.00	<p><b>Project Status:</b> Project concluded on February. Some of the significant project contributions are:</p> <ul style="list-style-type: none"> <li>- Increase hazmat response skills and capabilities to first responders in McAllen, Mission and Pharr Fire Departments and first responders from northern Mexico.</li> <li>- Equipment will also be used in future binational trainings.</li> </ul>
							\$ 25,055.00	
2	20285	3	1	Comprehensive Solid Waste Management Project in Rio Bravo and Valle Hermoso, Tamaulipas	Secretaría de Medio Ambiente	Jorge Hernandez (PM)	\$ 19,871.16	<p><b>Project Status:</b> The two municipal programs have been completed, and in August 10 and 24 they were presented for approval by the respective city councils. Some of the significant project contributions are:</p> <ul style="list-style-type: none"> <li>- The generation and waste composition studies allow both communities to know the type and amount of waste generated per inhabitant and could be marketed. The studies also calculate the areas required for the final disposal site according to their generation.</li> <li>- Both programs have been completed, and presented for approval by the respective city councils.</li> </ul>
							\$ 19,871.16	
3	20295	3	1	Interagency coordination for the management of electronic and electrical waste in Ciudad Acuña and Piedras Negras, Coahuila	Secretaría de Medio Ambiente del Estado de Coahuila de Zaragoza	Jorge Hernandez (PM)	\$ 16,898.67	<p><b>Project Status:</b> The project concluded in March 2017. The results of the project are. Collection of 56 tons of electronic waste (25 tons were targeted), which included 3 campaigns of massive collection of e-waste in several municipalities. 36 public and private organizations were trained and supported the campaign. A permanent collection of electronic waste was opened in Ciudad Acuña.</p>
							\$ 16,898.67	

4	20287	4	2	Binational Tabletop and Functional Exercises between Harlingen, TX and Matamoros, Tamaulipas.	City of Harlingen Fire Department	Briselda Duarte (PM)	\$ 44,682.30	<p><b>Project status:</b> The project concluded in August . Some of the significant project contributions are:</p> <ul style="list-style-type: none"> <li>-Training of 19 officers and students from Harlingen (2), Mission (2), Brownsville (1) and Matamoros (14).</li> <li>-Harlingen and Matamoros have established the ability to implement standardized response and real time communication in the event of Hazardous Materials Incidents</li> <li>-A foundation for enhanced emergency response and cooperative incident management has been created</li> </ul>
							\$ 44,682.30	
5	20297	2	2	Decision Making Tool (DMT <sup>G</sup> ) for Determining LID Stormwater Detention in Brownsville, Texas	Texas A&M University-Kingsville	Jorge Hernandez (PM)	\$ 38,885.00	<p><b>Project Status:</b> Activities for this quarter include: The modeling runs for the Tool were done and the DMT has been finalized and rolled out through past workshops, for this reason, a project no-cost extension was authorized and approved until July 31, 2018.</p>
							\$ 16,926.81	

Updated June 30, 2018

Amount Approved	\$ 145,392.13
Amount Disbursed	\$ 123,433.94

Total Approved	\$ 278,865.81
Total Disbursed	\$ 256,907.62